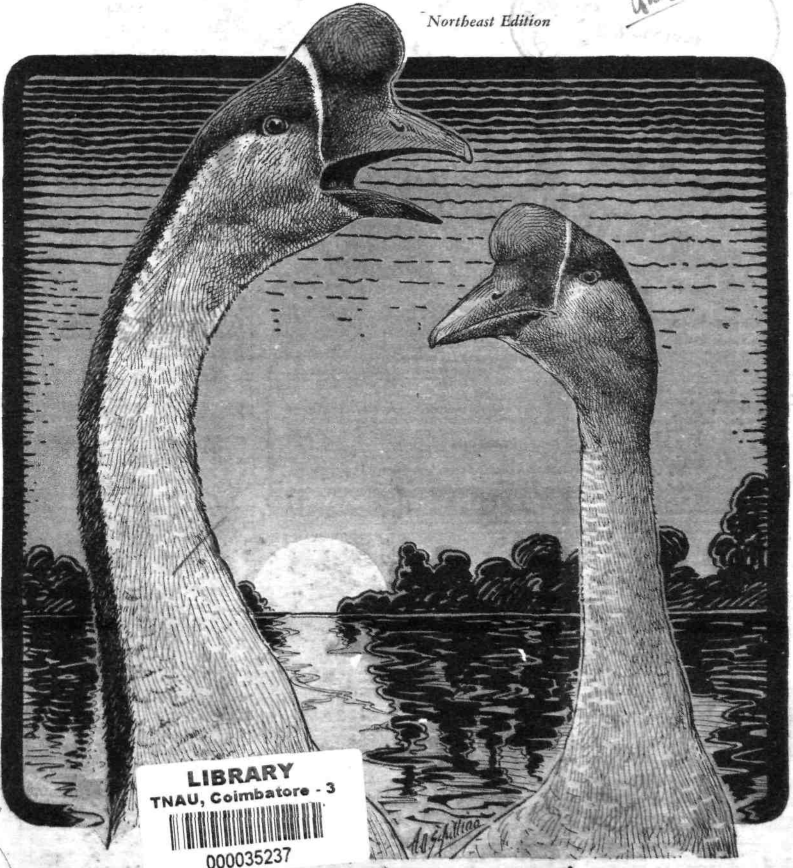
AUGUST, 1934

POULTRY TRIBUNE

10c a copy

Northeast Edition



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Why pay high prices for tires? Save money on all standard brands, reconstructed by the special Adamite scientific process. Adams tires are fully guaranteed to give best of service under severest road conditions for 12 full months and are backed by the vast financial resources of this well-known company. Now is the time to buy before prices advance.

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With Each Order for Two Tires Utility Light, full size complete with bulb. Replaces flashlight, no battery to replace.

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Size Rim	Tire	Tube
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29x4.50-20	1.80	.85
30x4.50-21	1.85	.85
28x4.75-19	1.85	.95
29x4.75-20	1.90	.95
29x5.00-19	2.20	1.05
30x5.00-21	2.20	1.05
28x5.25-18	2.20	1.15
29x5.25-19	2.25	1.15
30x5.25-20	2.25	1.15
31x5.25-21	2.55	1.15
28x5.50-18	2.60	1.15
29x5.50-19	2.60	1.15
30x6.00-18	2.70	1.15
31x6.00-19	2.70	1.15
32x6.00-20	2.70	1.25
33x6.00-21	2.90	1.25
31x6.50-20	2.95	1.35
32x6.50-20	2.95	1.35
34x7.00-20	3.40	1.65
35x7.00-21	3.40	1.65

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Size	Tire	Tube
30x3	$1.80	$0.65
30x3½	1.90	.75
31x4	2.40	.85
32x4	2.40	.85
33x4	2.40	.85
34x4	2.65	.85
32x4½	2.65	1.15
33x4½	2.65	1.15
34x4½	2.65	1.15
30x5	2.85	1.35
33x5	2.90	1.45
35x5	3.00	1.55

Heavy Duty Trucks

Size	Tires	Tubes
30x5	$3.00	$1.95
32x6 8 ply	5.25	2.75
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36x8	9.00	3.95
40x8	10.75	4.15

ALL OTHER SIZES

Send $1 deposit with each tire ordered. (\$4 with each Truck Tire.) Balance C.O.D. If you send cash in full, deduct 5 per cent. Remember — 12 months' guaranteed service or replacement at ½ price.

ADAMS TIRE & RUBBER CO., Dept. H-75
2515 So. Michigan Avenue CHICAGO, ILL.

12 month Written Guarantee Bond with Every Tire

No Loss of PRODUCTION

WHEN YOU CONTROL ROUNDWORM WITH . . "Black Leaf" WORM POWDER

3438

There is no need to fear loss of production when *you use* "Black Leaf" Worm Powder. This easy, time-saving, low cost method will rid your flock of Roundworm. "Black Leaf" Worm Powder is nicotine in a new form. Mixed in the mash and fed *once in the ordinary way, it passes to* the birds' intestines where the intestinal juices act on the Powder, releasing the nicotine. . . One dose kills the worms where they live and grow.

"Black Leaf" Worm Powder is odorless . . . tasteless . . . and has no toxic effect on the birds. ¼ lb. in a gallon of mash treats 100 birds. Sold by dealers, or 100 bird size sent postpaid for $1.00 and your dealer's name. Descriptive circular free.

Made by the makers of "Black Leaf 40"

Tobacco By-Products & Chemical Corp., Incorporated • Louisville, Ky.

"Black Leaf 40" KILLS LICE

"Black Leaf 40" kills adult body lice and feather mites. It has plenty of nicotine in stable form and there will be enough on the roosts to kill newly hatched lice for days. Under normal conditions "Black Leaf 40" gives a thorough clean-up. . . A drop on the birds' necks kills head lice. . . Sold by dealers everywhere.

JUST ONE DOSE • • • IN THE MASH

YEAST-FED BIRDS WIN FOUR FIRST PRIZES!

SWEEPING the 1934 Iowa State Egg Show, Harry Atkins of Davenport carried off seven out of the ten chick and egg trophies, including four first prizes: Sweepstake Dozen Eggs, Sweepstake Single Egg, Sweepstake Chicks, Sweepstake Ducklings. A triumph for Mr. Atkins, this amazing record is also a remarkable demonstration of the results that can be obtained with his method of feeding.

All Mr. Atkins' birds are fed a balanced mash fermented with 2% Animal-Poultry Yeast Foam. Fermented feed, says Mr. Atkins, makes chicks grow faster, builds healthier and heavier stock, produces bigger eggs and keeps hens laying longer. Increased egg and meat production, he says, pays for the slight cost of the yeast may times over.

Why don't you test Animal-Poultry Yeast Foam on your own flocks? See how it checks coccidiosis and other intestinal diseases, puts flesh on growing stock faster, shortens the moult, and makes hens lay more eggs, heavier eggs, and during a longer season.

4-pound box of Animal-Poultry Yeast Foam, enough for 300 pounds of mash, costs only $1 at your dealer's. Or sent anywhere in U. S. A. on receipt of check or money order. Write for FREE copy of new book, "Profitable Feeding Methods," filled with latest poultry hints and wrinkles. Northwestern Yeast Co., Dept. E 1750 N. Ashland Ave., Chicago.

PULLETS

20 THOUSAND TO SELECT FROM. 40c AND UP. Large English Type Leghorns of various ages up to laying stage. Lower prices for younger pullets. Also hens and breeding cockerels. C.O.D. on approval—"inspection privilege" at your Express Office before you pay. Catalog explains all.

FAIRVIEW HATCHERY & POULTRY FARM, Box P, R. 2, Zeeland, Mich.

Hanson's World Great Production Strain

50% OFF ON SUMMER HATCHING EGGS BARGAINS ON PEDIGREED 10 TO 15 WEEKS OLD COCKERELS

Write J. A. HANSON, Box 14, Corvallis, Ore., for FREE CATALOGUE. Code No. 3102

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Maryland

Hugh Thompson, Contributing Editor
Fanwood, N. J.

(In order to keep in closest possible touch with our readers Mr. Thompson makes frequent trips through the states named above collecting news items and editorial matter relating to the poultry industry.)

* * *

August Events

Aug. 6-8. American Poultry Association Convention, Morrison Hotel, Chicago, Ill.

Aug. 7-10, 26th Annual Meeting Poultry Science Association, Texas A. & M. College, College Station, Texas.

Aug. 11-18, Farm Week, Century of Progress, Chicago, Ill.

* * *

Coming Events

Sept. 13-14. Northeastern Poultry Producers' Council Meeting, Portsmouth, N. H.

Sept. 16-22, Eastern States Exposition, Springfield, Mass.

Sept. 17-21, Annual Cornell Egg Grading and Marketing School, Ithaca, N. Y.

* * *

N. J. Plans October 1 Contest Devoted to Hen Breeding

A hen breeding contest, the first of its kind in the country, to encourage and assist poultrymen in the breeding of fowls capable of economical egg production over a period of years, will be opened at the Vineland Egg Laying Contest plant October 1, announces Prof. C. S. Platt, associate poultry husbandman of the Agricultural Experiment Station, Rutgers University, New Brunswick, N. J., and contest supervisor.

"The contest," said Professor Platt, "will encourage the use of hens of known productive value and livability for the purpose of obtaining desirable males for breeding purposes, aiming ultimately to a lowering of flock mortality and an improvement in the economy of egg production. The contest will offer facilities for completing flock improvement programs without disease risk for poultrymen who have birds in pullet contests."

The station poultryman has seen the need for an improvement in egg laying contest methods for some time and has been actively engaged in trying to bring this about. A meeting at Vineland, replies to letters sent to all contest entries of the past five years, and individual talks with poultrymen who

(Continued on page 12)

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Advertising Representatives: Chicago: J. C. Billingslea, Inc., 123 W. Madison St. Phone Central 0465.

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EGG-A-TORIALS

By O. A. HANKE
Editor

Emphasis on Marketing!

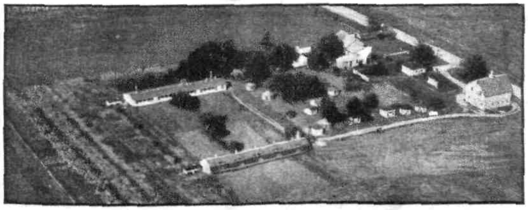
FOR ALMOST a decade, since the discovery of Vitamin D and its relation to the poultry industry, the emphasis has been on increased production. Most of the major discoveries in the field have related to management or feeding practices which brought improved production to the poultry raiser. During this period, commercial hatcheries have also expanded to a point which made it possible for almost anyone to purchase chicks cheaply and engage in the poultry business successfully from a production standpoint.

But the consumption of poultry products has not increased by the same rapid proportions. Consumers tired of poor quality eggs, and they manifested their dissatisfaction by reducing their purchases. Then certain producers who became aware of this condition reasoned that they might improve the market price of their product several cents a dozen by marketing a better product. Today that movement promises to take on national importance.

COMMERCIAL poultrymen on the Pacific coast were, perhaps, the first to benefit by the demand for quality eggs. Merging their individual lots into carloads they rushed them across the continent in refrigerated cars to capture the premium on the Chicago and New York markets. They still enjoy an enviable reputation which enables them to top the New York market.

Their experience challenged eastern producers adjacent to this market who now compete intensively for this outlet. It prompted the opening of egg auctions in the East, and they have now spread as far west as Ohio. Indiana producers have won fine outlets in New York by paying attention to market quality and by moving their eggs quickly to market. The emphasis on market quality will soon spread to every buying station in the country. Two large packers in Indiana are now buying eggs on government grades. This influence on consumer purchases will soon make itself felt in an increased per capita consumption in this country.

Much information is available to convince the skeptic of the need for better farm care of eggs. Poultry Tribune urges its subscribers to heed the information which shows that an egg kept at 98 degrees degenerates into a B grade in three days while an egg kept at 60 degrees remains in the A grade for 23 days. Watch temperature; market frequently. Shift a part of your production interest to emphasis on better marketing.



Much of the editorial inspiration for the helpful articles which appear in Poultry Tribune each month is obtained from *Poultry Tribune Experimental Farm, owned and operated by* Poultry Tribune and located one mile from the editorial office here in Mount Morris. At this farm, Poultry Tribune editors also have an opportunity to become familiar with much that is *new in poultry equipment, feed, remedies,* and supplies.

Poultry Tribune, published monthly in the interest of 400,000 progressive poultry raisers, contains many advertisements which feature these new products of manufacturers. You are invited to patronize these reliable firms which offer feed, remedies, equipment and stock.

NOW! NEW "Split-Action" CAPSULE DOES THE WORK OF *TWO* Ordinary Worm Treatments

Everyone knows Nicotine is best for destroying round and pin worms—that Kamala gets the tape worms. But, government *bulletins say—when given together these* drugs interfere with each other and satisfactory results are impossible.

Pratts new N-K Capsule revolutionizes worming *because it works by SPLIT-ACTION! First, by releasing* nicotine into the intestines to kill large round and pin worms. Hours later—an **inside** capsule is crushed by the gizzard to release fresh, full-strength Kamala to destroy tape worms. In one operation, at one low cost, worms are cleaned out as thoroughly as though you had used two separate capsules.

Stop using treatments that the U. S. Dept. of Agriculture says get just **part** of the worms. Only Pratts N-K Capsules have "Split-Action". They cost no more. Get your supply now—to delay worming is dangerous!

IF DEALER CAN'T SUPPLY—MAIL ORDER

If dealer cannot supply, check the package wanted, enclose amount specified together with your name and address, and mail to

Pratt Food Co., Dept. 664, Philadelphia, Pa.

No. of Capsules	Birds Over 3 lbs. (Adult Size)	Birds 3 lbs. and Under; (Chick and Pullet Size)
50	☐ $0.85	☐ $0.55
100	☐ 1.50	☐ 1.00
500	☐ 5.50	☐ 3.75
1000	☐ 10.00	☐ 6.50

PRATTS "Split-Action" N-K CAPSULES
PATENT APPLIED FOR

KILL LICE

on poultry with DR. HESS INSTANT LOUSE KILLER. Sprinkle it under the litter in the nest. Put it in the dust bath. In extreme cases, dust the hen. Dr. Hess & Clark, Inc., Ashland, Ohio.

FREE Book

How to Raise Poultry for Profit. Explains the methods of Harry M. Lamon, famous poultry authority; tells how he trains you to be a scientific poultryman; how to make bigger profits; how he has helped hundreds get more eggs, higher prices, breed select flocks, cut feed bills, raise chicks to quick maturity, avoid losses. You learn at home *quickly and easily in spare* time. Money-back agreement protects you. Write for Free Book today. **The National Poultry Institute, Inc., Dept. 213-G, 2005-15th St., N. W., Washington, D. C.**

Colonial FALL and WINTER Chix

All leading straight breeds; also sex guaranteed chicks. World's largest chick producers. Send NOW for big FREE catalog of REAL BARGAINS.
COLONIAL POULTRY FARMS, Box408, PLEASANT HILL, MO., or BOX 408, FLORENCE, COLO.

Vaccinate to Control Losses From Fowl Pox

(P. T. Experimental Farm Photo)

The pullets are confined to the range shelters and the vaccinating is done early in the morning as they are released.

Important to do this job while pullets are still on range

by SIVERT ERIKSEN, D.V.M.

TIME was when all a person could do about fowl pox was to *worry*. Oh, of course, one could give a sulphur and salts treatment and feel lots better (that is, the owner). But for actually preventing pox nothing true or dependable was known until shortly before the onset of the famous "depression." Let's come back to that later.

We said "Why worry?" Boy, oh boy, we could take up numerous pages writing truths and facts, not scare copy, about what havoc pox has raised in the past and what other innocent diseases have been blamed instead of pox. Really fowl pox is poultry public enemy No. 1. Reasons: 1. It is wide spread: East, West, North and South. We used

"When the chickens are handled for vaccination, it is a good plan to take care of all other treatments that may be in order.

1. Look for disqualifications and discard undesirables.

2. Look for lice and treat.

3. If there is danger of bronchitis, vaccinate for bronchitis with the Laryngotracheitis Vaccine at the same time.

4. Consider the omnipresent worms and give a worm treatment too."

to think the northern states were free but are not any more. 2. Pox occurs in several forms. (a) Dry scabs on comb, wattles, etc. (easily recognized). (b) Wet form—diphtheritic—forming cankers that choke birds rapidly. This form must be differentiated from bronchitis. (c) Ocular—in which eyes, nose and sinuses are chiefly affected—sometimes simply called roup; without thought of cause. 3. Pox may accompany and complicate many other diseases regardless of age of fowls and as such may remain unrecognized.

So there is plenty of reason for *worrying about pox. But now one can* "worry" along constructive channels. That is, you worry about it until you decide to vaccinate while the chickens are still young and then 98 per cent of your troubles are over.

BEFORE we go into vaccination, let's have a little historic background. *The word pox means eruptive disease,* and practically all animals including man are affected by some kind of infectious skin eruptions. All are caused by viruses but each virus is quite specific for its own kind of animal. It is not readily transmitted from one specie of animal to another. Fowl pox is therefore a cousin to all the other forms of pox. Some strains are more closely related than cousins. Example, cattle and humans; chicken and pigeon.

The pigeon strain of vaccine has *sometimes been said to be to chickens* what the cow pox vaccine is to humans, but this is not entirely true. The pigeon strain produces a very mild attack at the point of inoculation but it does not produce a lasting immunity and therefore it is of limited value. Fowl pox vaccine of the chicken strain produces more severe takes but has the advantage of inducing a permanent and lasting immunity. Except in laying flocks or in the conditions when the health is not good, the chicken strain should be used.

FOWLS of any age may be vaccinated. But that inclusive statement does not mean that any age is equally satisfactory for vaccination. There is an opti*mum and desirable age for fowl pox* vaccination that should not be confused with possible age.

Recent work done at the Texas Experiment Station has shown that day old chicks could be successfully vaccinated. Under practical conditions this has worked out satisfactorily in some cases while in other cases the losses have been too high. Newly hatched chicks are quite delicate and with the extra handling and exposure attending vaccination, some injury may be done.

You are also up against the problem of complication with other diseases. Chicks may become affected with bowel trouble, pneumonia, etc., and this may be incorrectly blamed on the vaccine. Under practical conditions it has often been found that the first two weeks are rather dangerous to the chicks and, if *possible, one should wait till after that* time. In southern states where pox is particularly prevalent it may be absolutely necessary to vaccinate day old stock because very young chicks are often affected with the natural form of pox.

The growing age of from four to ten weeks is the most ideal time for vaccination. The chicks are old enough at that time to withstand the development of takes and they are young enough that they will not easily be upset or thrown into a molt. When at all possible select ages within this range.

(Continued on page 10)

Egg and Poultry Prices!

Egg Prices Low Until Recently—Hot Weather Decreases Quality—Outlook for Fewer Layers In Fall.

(Written July 13)

A temporary increase in the receipts of eggs at the larger markets, continued low consumption, and heavier storage stocks than many buyers consider desirable, have combined to hold egg prices to lower levels than usual. A decrease in receipts has started prices sharply upward in the last few days, however.

The last week, too, consumption in New York City has improved a great deal, with a trade output the week ending June 30 of 17,000 cases more than the corresponding week in 1933.

The principal factor which makes the outlook for this coming fall and winter very favorable is the great reduction in the number of hens and pullets on farms, and the smaller number of chicks raised this year. On June 1, farm flocks contained 10 per cent fewer chicks and young chicks of the current year's hatching than last year, and fewer than any of the last eight years, for which there are records.

The number of old hens was 4 per cent less than last year, 8 per cent less than the average of the five years, 1927-31, and the smallest in the ten-year record for that date. With no summer hatchings of baby chicks, this situation can hardly fail to result in a lower production of eggs this fall, and should bring somewhat higher prices for eggs, although egg prices will have to be kept in line with prices of other foods and the ability of industrial workers to buy.

Storage holdings of eggs still are slightly less than a year ago. They increased more slowly during June this year than in 1933, and on July 1, there were 8,963,000 cases in storage compared with 9,364,000 last year, and a five-year average of 8,893,000 cases.

A greater change has occurred in the storage holdings of dressed poultry, which a month ago were very slightly higher than the previous year, but which are now considerably lower than a year earlier. Storage holdings of dressed poultry reached their lowest point in June, and from now on will increase again. On July 1, there were 40,581,000 pounds in storage compared with 42,705,000 last year, and a five-year average of 41,235,000.

Better Marketing Contest Offers $15 Prize Money

For August, Poultry Tribune announces a better marketing contest on the subject, "What improvement in marketing practice has been most profitable to me." Prizes will be awarded as follows: first prize, $5; second prize, $2; third prize, $2; and six $1 prizes.

As the practice to buy eggs on grade grows, poultry raisers will be rewarded handsomely for giving their eggs better attention on the farm, and for marketing them more frequently. This contest covers such points as frequency of gathering, keeping clean litter in house and nests, use of wire pails or other new equipment for gathering and cooling, better farm storage before marketing, more frequent marketing, etc.

Write not over 250 words on the one special change you have made which has enabled you to get a higher price for your eggs. Perhaps you are marketing direct. Maybe you have joined a cooperative shipping association. Don't write over 250 words and please be very specific about the dollar and cents value you have received from your approved marketing practice.

The contest will close August 31. Poultry Tribune's market editor will judge the contest and his decision will be final. Address your entry to Poultry Tribune, Market Editor, Mount Morris, Illinois.

CELOTEX

makes a tight, warm poultry house for winter layers

WERE you satisfied with results from your flocks last winter? Even though you fed the best feed and managed carefully, wasn't egg production below your expectations?

Let's find the probable cause. Are your flocks properly housed? It is not difficult or costly to have the right kind of a laying house. Now is the best time to consider this important matter.

The right kind of laying house means a tight, warm, ventilated house. The walls and the roof should keep the body heat of birds *inside* in winter. That is the *only* kind of poultry house that can be kept warm, dry and healthful.

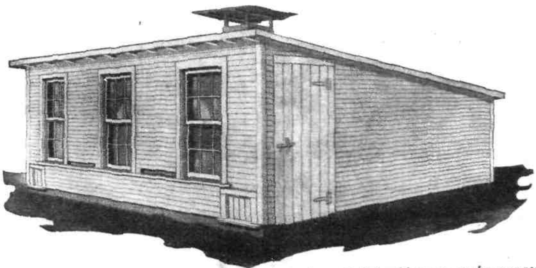
Laying houses built of Celotex Cane Fibre Insulation and lumber give most satisfactory results. Celotex insulates and builds. It builds weather protection into walls and roofs at low cost. Mind you, with Celotex insulation you can avoid—

- Quick temperature changes in winter;
- Drafts on the birds;
- Wet floors or frozen litter;
- Moisture or frost on walls or ceilings.

In summer the house will be cool, the birds comfortable. Good ventilation will be possible at all times.

Celotex Lumber Dealers have correct and practical plans for Celotex Laying Houses. They are ready to advise with you on *building or remodeling poultry houses.* Write for the name of the dealer nearest you. No obligation.

Additional Protection—All Celotex Cane Fibre Products are manufactured under the Ferox Process (patented) and therefore effectively resist damage by Fungus Growth, Dry Rot and Termites (White Ants).



This modern laying house, 20' x 20', is built of Celotex and lumber and is designed for 115 to 130 heavy or 135 to 150 light breed birds. Ask your Celotex dealer to show you the plans.

CELOTEX
BRAND
INSULATING CANE BOARD
Reg. U. S. Pat. Off.

Approved after Test by POULTRY TRIBUNE EXPERIMENTAL FARM Conducted by POULTRY TRIBUNE MAGAZINE

NRA CODE
THE CELOTEX COMPANY P. T. 8-34
919 No. Michigan Ave., Chicago, Ill.
Please tell me the name of the Celotex dealer who can give me information on laying houses.

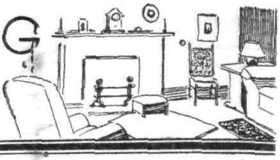
Name__________

Address__________

City__________ State__________

HOMEMAKING

By MRS. E. J. TILTON,
Home Department Editor



Enjoy the Help of Running Water!

DEDICATED to the "Pioneer Mother," a beautiful statue stands at Ponca City, Oklahoma. The sculptor, Bryant Baker, has caught in bronze, that indomitable spirit, that power to endure of the pioneer woman. *A Bible she carries in one hand, her small, sturdy son she leads by the other*, and in the crook of her arm hangs a small bundle, her worldly possessions.

Pioneer wives and pioneer mothers! They trudged through the wilderness, they rode in crude ox-drawn wagons to build a new empire. Pioneer men wanted land and independence. They plowed and sowed, reaped and raised livestock. Always their homes were located close to a good water supply, near running spring water, if possible. Often the spring was a long distance from the house. What thrilling tales often grew out of trips, *made with heavy*, hand hewn buckets to the spring for water. Wild animals, and wilder, more cruel red-skins lurked near-by. But water, then as now, was an absolute essential of life, and must be obtained at any cost.

Gone are the thrilling pioneers days, and gone with them are many of their habits and customs. Much more water is absolutely essential today than in the days of Daniel Boone and Johnny Appleseed. Eighty-five years ago in one state bath tubs were taxed $30 a year as a luxurious and undemocratic vanity; declared unlawful in another state and banned as unhealthy by doctors. Citizens of Philadelphia, in the 1760's, were horrified to learn that the renowned Benjamin Franklin, postmaster and sage, had violated the Quaker City's ordinance, prohibiting the use of water for bathing inside one's home. The *city council had made the law, fearing the* bathing fashion, then new-fangled, would lead to drought. Franklin, insisting on his bath, had made himself a copper bath tub, shaped like a shoe, kept it secretly in his attic, and at stated intervals the famed patriot took bootleg baths.

IT'S NO crime to bathe in Philadelphia anymore. We no longer burn witches at the stake, countenance duelling. A warm summer day's plunge into the swimming hole, or a drenching rain sufficed for the pioneer, but today such accidental ablutions are *insufficient*.

As we ascend the ladder of civilization, an increasing need of water is felt. Health, modern clothing and living, and society demand water in quantities which would have left the pioneer aghast.

A survey, made in farm homes by the Department of Agriculture, reveals that a striking relation exists in the infant death rate *and a modern water supply. Infant* mortality in homes with a modern water supply was 117 per 1,000; the infant death rate jumped to 198 per 1,000 in homes with a non-modern water supply. Homes with modern bathing facilities showed an infant mortality of 73 per 1,000. Non-modern bathing facilities showed an infant death rate of 165 per 1,000. Infant mortality in homes with a modern sewage disposal system was 108 per 1,000 while homes with non-modern sewage disposal showed the infant death rate at 159 per 1,000. "We believe," says a modern writer, "that proper water supply and drainage will *add an average of at least five years to the* life of each individual member in the family, and for some it will mean the difference between life and no life at all."

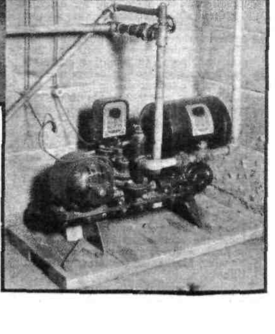
The pioneer mothers, as mothers today, wanted life to be more gracious, more pleasant. They hung curtains in the windows of those crude log cabins. Among their few belongings, carried in the long trek to the west, often was a rose bush. It has ever been the task of woman to cherish those enduring and fundamental well springs of life which are cradled in refinement and beauty, unmeasured in dollars and cents.

Sheer brute strength on the part of the pioneer and his mate wrested a home and a living from the wilderness. It is not so today. Many a failure labors harder than a successful man. Says B. C. Forbes, famed commercial writer, "Success today is but 35 per cent labor." Of the many factors which enter into a successful life, none are more important than our ability to mingle graciously and at ease with our fellow men. The modern mother realizes that as her husband must be equipped with modern facilities to compete with others, so must her children compete with children who have gained the poise *acquired from modern homes*. The fastidious cleanliness, demanded by modern society, is impossible with the facilities which served our pioneer fore-fathers so well. "Many a capable man," states a modern writer, "has missed advancement (and happiness, too,) because he was socially a total loss."

MANY a whirling windmill pumps water which is piped to a stock tank. *No one* doubts that it is a most profitable investment. The American farmer produces the largest number of bushels per man of any farmer in the world, solely because he employs modern *methods. Yet on how many of these farms is* the water for the home supplied in the same fashion as in our pioneer days? Surely a most unfair and most lopsided arrangement!

On a Virginia farm where water was obtained at a spring 270 feet from the house and 65 feet below it, the wife carried 150 pounds of water (less than 20 gallons) daily. In a year this amounted to a load of 27 tons, a walk of 112 miles, and 27 ten hour days. An electrical motor could have delivered all the water at the kitchen faucet for less than $5!

(Continued on page 10)

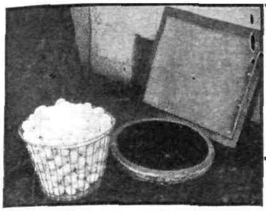


The young farm mother shown above is a slave to the old pump and her water buckets. Contrast her plight with the conveniences enjoyed by Mrs. C. Burggrabbe, Indlefield, Ind., whose modern bathroom is provided with running water by an electric pump in the basement of her home. Gasolene and electric operated pressure water systems not only relieve the farm mother of the drudgery of pumping and carrying water for the home but they also make it possible to install automatic water fountains in the poultry house. In a recently conducted rural survey farm folks indicated that thousands of them are anxious to install a modern pressure water system. What joy these installations will bring to the farm mothers who have done without them so long.

Timely Tips!

by A. P. LOOMIS

Sup't. Poultry Tribune Experimental Farm



A 20 gallon jar buried in the ground makes a good receptacle to keep eggs cool on the farm during the summer months. A temperature of about 68 degrees can be maintained with this arrangement.

IF NOT already done this season, right now is an excellent time to dip all adult birds for lice. For warm weather treatment I still like to dip in sodium fluoride solution as I know every bird has been treated. In cooler weather, or if one doesn't have the time or help to dip, painting the perches with nicotine sulphate is very effective. Young birds, if kept separated from the older flock, seldom have any lice the first summer, making it important to kill them on the older birds before housing the pullet "crop."

It has always been somewhat of a mystery, however, that incubator chicks can be put on a new place with a new house and equipment *and then have both lice and mites. Birds,* particularly sparrows, carry these and recently three chicken lice were found on one house fly. Evidently flies serve as an intermediate host or at least a carrier to more poultry pests than tape worms.

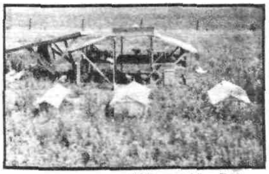
I find that a lot of beginners are still confused as to the difference between lice and mites. Lice stay on the birds all the time, are not blood suckers, therefore the "lesser of the two evils." Mites stay on the perches or walls of the house during the day and make their attack at night.

It has been said that a female louse becomes a great grandmother in twenty-four hours, so if you are good with figures you may judge for yourself how long it is advisable to let them live.

* * *

IT HAS been interesting this dry season to compare our alfalfa range with two neighboring fields of clover just across the fence.

There are about four acres in this range. Two years ago we had nearly 500 turkeys on it, last year 1,200 pullets and this season we are grazing 1,500 pullets. We have cut one good crop of hay and since our recent rains (yes, it has really rained here at last), the next crop will be much larger than the whole season's growth of clover. As a green feed, while you are getting that alfalfa started, sudan grass and rape do well.



(PT Experimental Farm Photo)

On the treeless ranges at PT Experimental Farm this arrangement of range shelter, shade shelter, water barrel and mash hoppers is used. The forage is tender alfalfa.

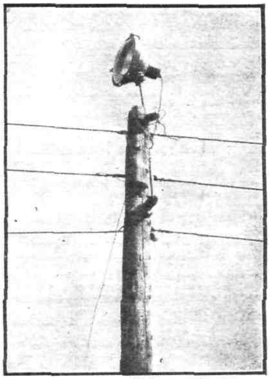
* * *

I JUST HAD a talk with a very level headed, veteran cattle feeder. This man has been losing money for the past three years feeding cheap corn. Since corn is advancing in price he is putting more cattle on feed and expects to make a small profit with 60 cent corn where he was unable to do so at 40 cents per bushel.

His reasoning on this is that any Tom, Dick or Harry will feed or has been feeding cheap corn, but will stop as grain prices rise, leaving a better chance for those who do continue to make a small margin of profit.

Well, I am not particularly interested in cattle feeding either, but the thought has occurred to me that this very thing is likely to happen in the poultry industry.

Most any one can drift along and carry on with cheap poultry feed, but as prices advance, ultimately increasing the overhead, those good feeders with experience and operating under modern practices will be much more likely to make their books balance with at least a little extra on the profit side.



(PT Experimental Farm Photo)

The poultry farm with electric lights can reduce the thieving hazard by burning a spotlight of this character which is not expensive to purchase. The powerful reflector lights a large area with a 200 watt bulb.

* * *

THE EARLIEST developing pullets at Poultry Tribune Experimental Farm have been put into the laying house. As soon as we find a few pullet eggs on the range, those pullets with well developed bodies and red combs are brought into the house. It is best to house the pullets as they develop even if it means bringing in only a dozen birds at a time.

* * *

WHEN PULLETS are housed, remember that they are being placed in radically different conditions and will need time and favorable conditions to adjust themselves to the new situation.

Frequently, pullets develop cannibalistic traits shortly after they are housed. This may start with prolapsus or other injury.

Such vices may be prevented to a certain extent by allowing the pullets plenty of room, having their house clean and well ventilated during the latter part of the summer, giving them plenty of feed and water, and giving green feed if the birds are confined.

* * *

DR. PAUL F. SHARP, Cornell University, studying the market value of eggs of different ages and held under different conditions, found that "Grade A" eggs were lowered to "Grade B" quality in *3 days at 98.6° F., 8 days at 77.0° F., 23 days at 60.8° F., 63 days at 44.6° F., 100 days at 37.6° F.*

This emphasizes the extreme importance of cooling eggs promptly and keeping them at a reasonably cool temperature. The safest holding temperatures range between 40 and 60 degrees.

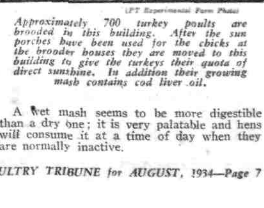
* * *

IF YOU ARE interested in learning more about the various phases of the poultry business such as its history, some of the legends connected with the various breeds, practical methods of breeding, housing and feeding, and other profit factors in the production of eggs and poultry, you will be interested in the two volume book "Eggs" which is creating worldwide attention by its interestingly written information on poultry and eggs. Book One includes the above information, while Book Two gives 800 recipes for preparing and carving chicken, duck, geese, turkey and the use of eggs. This book alone should make the set worthwhile for the housewife, or for the poultryman who is marketing direct and would like to supply recipes or new ways of using eggs and poultry to his customers.

* * *

SOMETIMES IT IS difficult to get hens to eat enough feed during hot weather to enable them to maintain a high rate of egg production. In order to be sure of a heavy intake of feed, it is best to offer one feed of moist laying mash at noon each day.

Give the fowls what they will clean up in 30 minutes. This may be fed in a clean trough or may be fed on top of the dry mash, but if the latter practice is followed, be sure that no more is fed than the birds will clean up rather quickly. A lazy man's way of feeding wet mash is to pour a small stream of water or milk along the top of the dry mash hopper when an open hopper is used.



(PT Experimental Farm Photo)

Approximately 700 turkey poults are brooded in this building. After the sun porches have been used for the chicks at the brooder houses they are moved to this building to give the turkeys their quota of direct sunshine. In addition their growing mash contains cod liver oil.

A wet mash seems to be more digestible than a dry one; it is very palatable and hens will consume it at a time of day when they are normally inactive.

200 Approved Products!

A new leaflet just released lists more than 200 products such as brooder stoves, brooder houses, mash hoppers, fire guns, fencing material, laying house equipment, etc., which have been approved after test at Poultry Tribune Experimental Farm. This leaflet is available to Poultry Tribune subscribers for three cents in stamps. Address: Poultry Tribune, Service Department, Mount Morris, Illinois.

Questions and Answers

Letters from subscribers answered free. Send 3 cent stamp for return postage.

by J. H. FLOREA
Service Department

Don't Send Specimens!

Every week we receive at this office a number of specimens which our subscribers desire to have us post. Poultry Tribune has no facilities for doing this work which often entails chemical and bacteriological research. Most state colleges are equipped to perform this service. If you do not have it, write us for the address of your agricultural college.—*Editor.*

What Is Good Production?

What is considered a good average egg production per bird?—W. A. N., Ky.

Answer: Heads of thirteen northeastern state poultry departments were asked, "What is the ideal average egg production per hen, per year, towards which commercial poultrymen should strive?" Their answers ranged from 150 to 200 eggs per hen, with the general concensus of opinion around 175.

* * *

Which Way Should Roosts Run?

Do you think the roosts in a laying house should be parallel with the back wall, or at right angles to it?—R. N. D., Okla.

Answer: We prefer to have the roosts in a laying house extend at right angles with the back wall. The principal reason for this preference is that this arrangement permits a better circulation of air around the birds and there is less danger of colds and roup in the flock. This is especially true if the dropping boards are set out three or four inches from the back wall, so there can be circulation of air completely around the roost. When the roosts are placed parallel with the back wall the birds in the center get very little fresh air, and there is more danger of their becoming too warm with a resulting tendency toward colds.

This arrangement of the roosts at right angles to the back wall is especially desirable when heat is used in the house, as the warm air can circulate entirely around all of the birds when the dropping boards are a few inches from the back wall.

* * *

Are Early or Late Molters Best?

Which hens are best to keep for layers the second year—those which are molting now, or those which molt later this fall?—J. C. B., Calif.

Answer: Other things equal, late molting hens are much better layers than those which molt so early in the summer. Hens which molt in September or later are usually worth keeping for a second year, while those which molt earlier will seldom prove profitable unless they are molting due to some unusual or improper feed, or management.

* * *

Continue Mash Feeding

When I have to pay almost two cents a pound for laying mash, do you think it is worth while to continue feeding it when eggs are only 10 cents a dozen?—Mrs. L. A. C., Kans.

Answer: It will require between 50 and 60 per cent production from your flock to pay their feed cost at the feed and egg prices which you give. As a rule, however, it would pay to continue feeding laying mash, due to the fact that egg prices are always low in the spring and from now on should show a gradual increase. With good feed and management, your hens should continue to lay well during the summer and early fall, thus giving a good supply of large eggs for the better summer and fall egg prices.

How to Use Cottonseed Meal

Down here in the south, cottonseed meal can be purchased very cheaply. How much of this is it safe to put in the ration?—A. O., Okla.

ANSWER: It is not recommended that more than 5 to 7 per cent of a laying ration be composed of cottonseed meal, as it has a tendency to produce dark colored yolks and greatly reduces the value of eggs for storage purposes. Cottonseed hulls should never be used in poultry feeding because they add more bulk than the chickens can use.

Leaflets for Subscribers

The following leaflets and circulars which have been prepared to aid our readers may be obtained by addressing the Service Department, Poultry Tribune, Mount Morris, Ill. If you wish, you may clip this notice and check those leaflets that you want, sending along the postage indicated. *Don't forget to give your name and address.*

- ☐ No. 1, How to Control Round Worms and Tape Worms in Poultry with list of worm remedies—*6 cents in stamps.*
- ☐ No. 2, How to Control Coccidiosis in Chicks—*3-cent stamp.*
- ☐ No. 3, Instructions for Caponizing—*3-cent stamp.*
- ☐ No. 4, How to Ventilate a Poultry House—*3-cent stamp.*
- ☐ No. 5, Egg and Poultry Buyers—*3-cent stamp.*
- ☐ No. 7, Plans for Egg Cooling Cabinet—*3-cent stamp.*
- ☐ No. 8, Canned Chicken is Tasty and Convenient—*3-cent stamp.*
- ☐ No. 10, All Night Light—*3-cent stamp.*
- ☐ No. 12, Starting and Growing Rations—*3-cent stamp.*
- ☐ No. 13, Laying Rations—*3-cent stamp.*
- ☐ No. 16, Answers to 10 Common Questions on Housing—*3-cent stamp.*
- ☐ No. 19, Controlling Cannibalism, Feather Pulling and Egg Eating—*3-cent stamp.*
- ☐ No. 20, Direct Selling Information for the Poultryman—*3-cent stamp.*
- ☐ No. 21, When and How to Vaccinate for Chicken Pox Control—*3-cent stamp.*
- ☐ No. 22, Caging the Layers—*3-cent stamp.*
- ☐ No. 23, Blackhead Control—*3-cent stamp.*
- ☐ No. 24, Broiler Production—*3-cent stamp.*
- ☐ No. 25, *Figuring a Balanced Ration—3-cent stamp.*
- ☐ No. 27, That New Bronchitis Vaccine—*3-cent stamp.*
- ☐ No. 28, How to Control Lice and Mites—*3-cent stamp.*
- ☐ No. 29, How to Spot the Non-Layer, *3-cent stamp.*
- ☐ Complete List of Products Approved After Test on Poultry Tribune Experimental Farm (Includes brooder stoves, brooder houses, feeders, fountains, insulation, etc.)—*3-cent stamp.*
- ☐ **Bul. 1, How to Build a Range Shelter for 125 pullets**—*15 cents.*
- ☐ **Bul. 3, Newest Model 24 x 24 Combination Roof Laying House Blue Print**—*15 cents.*
- ☐ **Bul. 4, How to Build a Brooder House (blue print)**—*15 cents.*
- ☐ **Bul. 5, Blue Print and Plans for Two Story 1500-Hen House**—*25 cents.*
- ☐ **Bul. 6, Blue Print and Plans for 28x40 Shed Roof House**—*15 cents.*

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29x4.50-20		1.65	0.85	28x5.50-18		2.45	1.15
30x4.50-21		1.75	0.85	29x5.50-19		2.45	1.15
28x4.75-19		1.75	0.95	30x6.00-18		2.65	1.15
29x4.75-20		1.85	0.95	31x6.00-19		2.65	1.15
29x5.00-19		2.05	1.05	32x6.00-20		2.65	1.25
30x5.00-20		2.10	1.05	33x6.00-21		2.85	1.25
28x5.25-18		2.10	1.15	32x6.50-20		2.85	1.35
29x5.25-19		2.15	1.15	34x7.00-20		3.15	1.65
30x5.25-20		2.15	1.15	35x7.00-21		3.15	1.65

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Size	Tires	Tubes	Size	Tires	Tubes
30x3	$1.85	$0.65	32x4½	$2.55	$1.15
30x3½	1.85	0.75	33x4½	2.55	1.15
31x4	2.35	0.85	34x4½	2.55	1.15
32x4	2.35	0.85	30x5	2.65	1.35
33x4	2.35	0.85	33x5	2.85	1.45
34x4	2.55	0.85	35x5	2.85	1.55

HEAVY DUTY TRUCK TIRES

Size	Tires	Tubes	Size	Tires	Tubes
30x5	$2.85	$1.95	40x8	$9.75	$4.15
32x6 8 ply.	4.95	2.75	TRUCK BALLOONS		
32x6 10 ply.	5.95	2.75	600x20	$2.65	$1.65
36x6	6.15	3.95	700x20	3.75	2.95
34x7	7.45	3.25	750x20	4.25	3.75
36x8	8.45	3.95	ALL OTHER SIZES		

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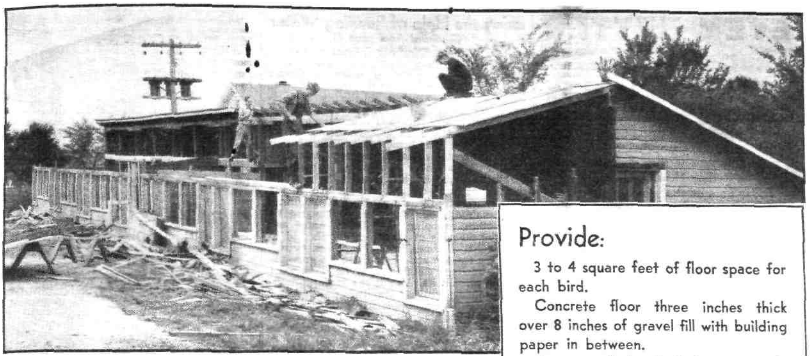


By following a few simple rules, anyone who is at all handy with a hammer and saw can remodel the farm poultry house into one which will boost winter egg production.

Isn't It About Time to Get That Poultry House Ready?

Provide:

3 to 4 square feet of floor space for each bird.

Concrete floor three inches thick over 8 inches of gravel fill with building paper in between.

1 square foot of window space to each 10 to 15 feet of floor space.

1 nest to each 5 birds.

Insulation on walls to keep poultry house warm. Insulation board one-half inch thick raises the house temperature about 20 degrees.

Tight roof of composition roll roofing. Patch old roofs with plastic cement and cover with asphalt roof coating.

by J. H. FLOREA
Associate Editor

INDICATIONS now are that egg prices probably will be higher this fall than for several years. In any event, it is certain that the highest prices of the coming year will occur during the fall and early winter months, as they always do.

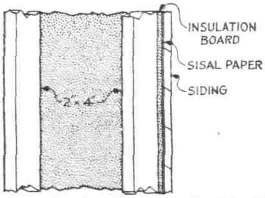
Poultrymen who get the most profit from their flocks plan to get a high production of eggs during those months. One of the most important factors influencing production in the early winter is that of housing. Birds which are comfortably housed are much more apt to continue in heavy production when winter strikes its blows than are birds in poorly built and equipped houses.

Since it will not be possible in all cases to build a new house, certain remodeling and repair work should be done on old buildings this summer. In many cases, it will be possible to turn a house which is unsatisfactory at present into a desirable laying house without a great deal of expense.

Go into your poultry house and look it over with a critical eye. Is it dry, well ventilated, light, and is it warmer inside than the outside temperature during winter?

THE FIRST place to check, of course, is the floor. Since it is practically impossible to make a satisfactory dirt floor, a permanent floor of some kind should be put in the building. The most satisfactory floor is a concrete floor laid on about 8 inches of gravel, which has been covered with a water proof paper and the concrete laid over the paper. If for some reason concrete cannot be used and a wooden floor is built, it probably would be advisable to insulate the floor, especially if it is very high off of the ground, for a great deal of cold air can come through a single layer of flooring.

Poultry House Construction!



To make tight poultry house walls which will hold in heat in winter and keep it out in summer, as well as be wind-proof and moisture-proof, the construction shown in this diagram should be very satisfactory. The insulation board controls heat passage and the layer of paper is wind-proof.

NEXT, examine the walls. Are they tight, or are there cracks and holes through which wind can blow in winter, causing drafts and resulting in colds and roup in the flock? There are several ways of repairing bad walls. They may be covered with roofing paper and battens. This does not make a very nice appearing house, however, and is not as warm as some other methods.

Perhaps the best plan is to line the walls and ceiling with an insulating material. A good insulation board is equal in insulating value to about three times the same thickness of wood. In some instances, it might be preferable to put the insulation board over the outside of the present siding. In that case, the insulation should be sized and kept well painted to preserve it. Covering the inside wall with a wind and water proof paper and then placing the insulation over the paper makes a very excellent construction.

In any case, make sure that all cracks and holes in the wall are closed by some means.

IN MOST old poultry houses, the ceiling is too high. Ceilings do not need to be any higher than necessary to allow the caretaker to get about comfortably. If the ceiling in your house is more than seven feet above the floor, it probably would be advisable to put in a new ceiling. Here again the structural insulation board will make the warmest and best job. It is important to have a tight ceiling for warm air naturally rises and will escape at the ceiling if it can, leaving the house colder than necessary.

Some people, of course, use straw lofts which do help to keep the house warmer in winter and cooler in summer, but they are not generally considered as satisfactory in that respect as insulation, and have the further disadvantages of being

(Continued on page 11)

EVEN BETTER Than SUNSHINE

FOR KEEPING THE FAMILY POCKETBOOK FILLED

"WHEN YOUR representative called I asked him why poultrymen should feed cod liver oil in sunny weather. He said, 'Lots of them are getting much better results from feeding NOPCO XX daily.'

"Today I am of the same opinion since feeding NOPCO XX. My general flock is much improved—look much better, coming through the molt faster, production about 25% better. No broken eggs in nest on account of better shell texture. Our pullets are the best we have ever raised with larger bones, developed faster and no leg weakness, mortality is very low.

"Our March 15 pullets are larger boned, healthy, bright and it (NOPCO XX) costs us no more."

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PLYMOUTH ROCK SQUAB CO. 324 B ST., MELROSE, MASS.

Enjoy the Help of Running Water

(Continued from page 6)

Mrs. William Klingberg, winner of the International Canning Contest in 1933, states, "An enormous amount of water is needed for blanching and cold dipping foods for canning. In homes not supplied with modern water facilities, this is a serious handicap." The most obliging husband cannot be at hand to carry even a small fraction of the water needed in the farm home today. The modern cream separator demands another "enormous *amount of water*" for its rinsing, washing and scalding. Says one farm woman, "The actual process of washing and rinsing the family laundry required one hour and 20 minutes; the remaining hour was spent in hanging up the clothes, pumping 13 pails of water and carrying 30 pails of water, as 4 pails had to be handled 3 times, and the others twice." *With the redskin and the pioneer has gone the* linsey woolsey clothing and its infrequent laundering. In its place is the modern clothing, requiring frequent laundering.

Fire hazards are minimized with a modern farm water supply. Plenty of hot water and soap are among the most powerful aids as germ killers.

Mother's Day 1934 saw the initiation of the "Keep Mother Young" movement, a very practical and profitable application of what had grown to be an over-sentimental observance of a most worthy cause.

Those early pioneer mothers died young. Nothing will contribute more toward keeping farm mothers young than a modern water *system. But it will also contribute dividends* of immeasurable value to every member of the family in health, and comfort. There is no dollar and cents value to the glow following a refreshing bath after a day spent in the hot field, but it makes life seem much more worth living. Without running water in the home, the effort to acquire it is too great for weary muscles. *Running spring water was the* pioneer's blessing. It must run into the house today.

Fowl Pox

(Continued from page 4)

Chickens may be vaccinated after they reach maturity but that is not desirable. There may be a molt develop and maybe a loss in production but if earlier vaccination has been neglected and pox is in the neighborhood, it is better to take chances on vaccination than it is on a natural outbreak.

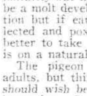
The pigeon strain may be used on the adults, but this is not as satisfactory as one *should wish because of the short duration of* immunity. One had better take a little loss and be sure of immunity than to be bothered with outbreaks later on.

THE "How" of vaccination is quite important. There is a right and wrong way and the success may be governed by the way it is *done. Two methods are in general vogue:* (1) stick method; (2) follicle method.

For the past few years much has been said about the *stick method* of vaccination. By this method a sharp instrument, knife or the end of a crochet needle is wrapped with cotton and adhesive tape so that from one-eighth to one-fourth of the point is exposed. This is *dipped in the vaccine and thrust into the skin.* The only advantage of this method is the speed. Most people do not care to sacrifice efficiency for speed. This method has the disadvantage that a blood vessel may be punctured and most of the vaccine may be washed out with the flow of blood. Consequently no "take" develops. There may not be a sufficient quantity of vaccine introduced into the skin to develop a "take."

The follicle method seems to be the most practical and best all around method. It requires no special instrument or preparation. The operator merely plucks from 3 to 5 feath-

How to Ventilate a Poultry House



This is Poultry Tribune's service leaflet No. 4. Nearly every poultry raiser has a ventilation problem. There are a number of ways in which a poultry house can be ventilated. Would you like to know of these methods? Three cent stamp. See Poultry Tribune's service leaflet box on page 8.

Egg Consumption *must be* Increased!

. . . And it can be, if producers co-operate. Egg consumption per capita in Canada is 313 compared with 263 in the United States. A feature article in the Pre-Convention (July) issue of Hatchery Tribune gives the entire interesting story.

The July issue of Hatchery Tribune is packed full of information of interest to everyone in the poultry industry. Here are some of the contents: "Message from Secretary Wallace", "Poultry Specialists in A. A. A.", "A Survey of Chick Buying Habits", "Vaccine for Infectious Bronchitis", "Chick Sexing", *and the complete I. B. C. A. Convention program.*

Be sure to get Pre-Convention Hatchery Tribune. Only 25c a copy. 104 pages with 3-color cover.

HATCHERY TRIBUNE

Dealer Magazine of the Poultry Industry

HATCHERY TRIBUNE
Mount Morris, Illinois.

Gentlemen: Please send me ☐ July (Pre-Convention issue) Hatchery Tribune. I enclose 25c for this issue.

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ers from the front part of the thigh and by means of a brush that accompanies the packages he introduces some of the vaccine into the follicles or holes from which the feathers were plucked. Only moderate rubbing is necessary. There is no bleeding and the *vaccine* is quite sure to get into the follicles. For the beginner it is the safest and most practical method.

With this knowledge in mind, choose your own method. The whole principle of vaccination is built around the fact that some of the vaccine must be introduced into the skin. Then the "take" will develop and immunity results.

WHEN the chickens are handled for vaccination it is a good plan to take care of all other treatments that may be in order. In other words give them a good physical examination while you are about it. The biggest job is the catching and handling, anyway. Take that opportunity to do the following: 1. Look for disqualifications and discard undesirables. 2. Look for lice and treat. 3. If there is danger of bronchitis, vaccinate for bronchitis with the Laryngotracheitis Vaccine at the same time. 4. Consider the omnipresent worms and give a worm treatment too.

All of these are much worth while. Since the earliest "takes" following pox vaccination do not show up until the fifth day, the worm treatment and the bronchitis vaccine will be all over when the pox "take" is at its height (10 to 15 days). The "take" at the point of inoculation tells the success of the vaccination. It should disappear between the 15th and the 20th day. When the scab drops off, immunity is complete.

Give the vaccinated birds special care for the first 2 weeks,—it pays. Avoid exposure to rains, drafts, etc. Keep them free from worms and coccidiosis by adopting preventive *measures. Give the chickens every opportunity* to develop a durable immunity with the least possibility of set backs.

The demand for fowl pox vaccine is doubling each year. More and more people cease to worry about pox, cankers and many forms of roup because they vaccinated for pox when the flock was within the growing age.

Poultry House Ready?

(Continued from page 9)

dirty and of harboring rats and mice.

There should be sufficient window space to provide plenty of light in the house. A general recommendation is about one square foot of window space to 10 or 15 square feet of floor space. Certainly there should be at least that much window area.

One type of window which is frequently recommended has the top sash hinged at the bottom, so it tilts in at the top. This can provide ventilation during all kinds of weather, or be closed entirely. When glass substitute is used in the windows, the frames frequently are hinged at the top in order that the window may be hooked up against the ceiling out of the direct rays of the sun during the summer.

A problem which must be given consideration in connection with practically all remodeling is that of ventilation. Temperature control and dryness in a poultry house both are tied up quite closely with ventilation. Fresh air must be taken in through special openings, or windows, in a manner to avoid direct drafts on the birds. Since in a well constructed house the inside temperature is higher than the outside, the air will be warmer and will absorb moisture. The air also rises as it becomes warmer and carries the moisture out with it if it finds an outlet from the house. If there is no outlet, however, the warm moist air may become trapped next to the ceiling where it cools and the moisture condenses on the ceiling and walls as water or frost. This, in turn, drops back into the litter and soon the house is wringing wet. Ventilator outlets may be placed with the outlet opening even with the ceiling, in which case they must be partially closed during winter to prevent the too rapid escape of warm air, or the outlet may be a flue extending down to within about two feet of the floor. Either works satisfactorily if properly built. The outlet flue should be tight and insulated.

THE interior equipment should be remodeled with the house. Unless they are already present, dropping boards and roosts should be placed along the back wall and nests provided at the rate of about one nest to every four or five birds. Fountains and feed hoppers ample to supply the flock must also be provided.

This entire house now must be protected with a good roof, for without a weather-proof roof, the rest of the house will soon go to pieces. In building a new house, or putting on a new roof, a composition paper is the most popular roof. This can be used either as a single layer, or as several layers, making a built-up roof. When the slope is fairly steep and an attractive appearance is desirable, composition shingles will meet all requirements as they can be obtained in a variety of designs and colors.

In repairing an old roof, it should be gone over carefully and all loose nails driven tight, or taken out and the hole filled in with a plastic cement. Larger holes can be patched by covering the area around it with plastic cement and pasting, then nailing a piece of roll roofing over it. Examine all the angles where the chimneys or ventilators and roof meet and note all cracks and shrinkages which should be filled with the same type of plastic cement.

After all of the holes have been patched with cement or a piece of roofing, the entire roof should be covered with a good roof coating. The roof then will be in condition to withstand all ravages of winter and will keep the rest of the house protected.

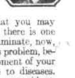
After a house has been well built or remodeled, many poultrymen like to use heat from some source during the coldest weather. Either brooder stoves or a regular heating system can be used to prevent the sudden changes of temperature which occur in the northern states and keep the hens comfortable all winter. A temperature around 50 degrees Fahrenheit seems most satisfactory.

Be ready to get your share of the winter egg money this year by providing your birds with a house which will keep them comfortable.

Poultry Tribune's $1500 Seventh National Chick Growing Contest will award 201 cash prizes this fall. Will you be one of the winners?

Poultry Health

By DR. J. E. SALSBURY
Veterinarian and Specialist in Poultry Diseases



AUGUST In spite of every precaution that you may have taken in the way of sanitation, etc., there is one danger in your flock, which it will pay to eliminate, now. It is that of worm infestation—a most serious problem, because worms not only hold back the development of your poultry, but make them more susceptible to diseases. Furthermore, the presence of worms is not always evident, and their damage is sometimes not apparent until it has become very, very serious.

With our line of worm preparations, you have the choice of the flock treatment and the individual treatment. If you prefer the flock treatment, either Avi-Tabs or Avi-Tone may be used. Avi-Tabs come in tablet form and are simply dissolved in water and mixed with the mash. Avi-Tone comes in powder form and can be mixed with either wet or dry mash. You merely feed your birds all they will eat of this medicated mash for five successive mornings.

For the individual treatment, you have the choice of a complete line of Dr. Salsbury's Caps, which assures you of the most satisfactory results. Authorities agree that Nicotine is the most effective drug for the elimination of round worms and that Kamala is most effective in removing tape worms and pin worms. Dr. Salsbury's line of worm caps provides these ingredients in the correct amounts. You will find that Dr. Salsbury's Caps are easy to use and easy on the birds. Their low prices make them very economical.

Worms also irritate and inflame the intestines; in severe cases of worm infestation, therefore, you will find it wise to put Dr. Salsbury's Phen-O-Sal in the drinking water, whether the flock or individual treatment is used. Be sure you get genuine Phen-O-Sal Tablets and genuine Dr. Salsbury's Caps by buying them in their original packages—not in bulk. See your local dealer, now, and ask for these products by name.

Prices: Avi-Tabs, 200 for $1.75; Avi-Tone, 5 lbs. $1.75; Phen-O-Sal Tablets, 125 for $1.00; Dr. Salsbury's Worm Caps; chick size, 100 for 60c and 100 for 90c; Adult size, 100 for 90c and 100 for $1.35; larger quantities at lower prices. Dr. Salsbury's laboratories, Charles City, Iowa.

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$8 per 100

Eggs for Hatching, $6 per 100

I Specialize One Breed, One Grade, at One Price.

All EGGS used are from my own BREEDERS. 100% STATE LABORATORY BLOODTESTED for Pullorum Disease (BWD) Free (Tube Agglutination Method). My White Rocks are early maturing, make QUICK GROWTH on Broilers and Capons. *Write for special prices on large orders.* CCC 1712.

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Lime Crest

. . . News

(Continued from page 2)

visited New Brunswick for Field Day assured him of the necessary cooperation.

"By using the Vineland contest for hens," Professor Platt pointed out, "we automatically reduce the number of pullet pens in the state's egg laying contests as a whole, making it possible to secure better pullets at the other plants at Flemington and Paterson. With a little more care in the choice of pullets for New Jersey contests, we can eventually build up our state breeding stock to a point where it will be second to none in the East."

The Vineland plant will furnish a means for keeping official contest records for birds over one year of age and will secure accurate data relative to the egg production ability of fowls of different breeds and from different sources during their yearling and later years. The plan, it is hoped, will provide a method for flock improvement by the commercial egg producer whereby he can obtain hatching eggs of known pedigree, from which breeding sires may be reared.

Twenty-five pens of hens and 25 pens of pullets are planned for Vineland this year. The pullet pens will be retired after this year, it being the purpose of the supervisors to encourage poultrymen to enter their pullets this year in preparation for the hens next year. After this year pullet entries will be sent to contests at Flemington and Paterson.

It is planned to trapnest selected pullets during their first laying year in the Hunterdon or Passaic County Contest plants, and to assemble the superior birds at Vineland during their second and later years. They will be maintained there year after year to continue their production, with unfit birds being replaced with new ones from the other contest plants.

Pedigree males will be mated to selected hens at Vineland for the purpose of securing pedigreed hatching eggs. Resulting chicks will be reared at home for the purpose of obtaining male birds for flock matings.

* * *

New 6-Day Egg-Laying Contest at 1935 Boston Poultry Show

A new and interesting feature has been inaugurated as part of the next Boston Poultry Show to be held Jan. 1 to 5 inclusive, 1935, in Boston, Mass. This novel feature is to be a Six-Day Egg Laying Sprint to commence the morning of Dec. 31, 1934, and to end at 5 p. m., Jan. 5, 1935. Each pen in the competition will comprise four birds with no alternates allowed. No breeder will be allowed to enter more than one variety of chickens.

Prof. Wm. F. Kirkpatrick, Connecticut Agricultural College, Storrs, Conn., director of the Storrs Egg Laying Contest, will be the director of the six-day event. Two men will be engaged under Professor Kirkpatrick's supervision to feed and care for the birds and to

W. F. Kirkpatrick
Director

Hugh Thompson
Manager

keep an accurate record of the number of eggs laid and of the weight of each and every egg. In case there should be any tie scores in the number of points earned by two or more pens of birds, the tied pens will be judged according to their breed score card and the highest scoring pen in this regard will win. Pens will be received at Mechanics Building, Boston, not earlier than Dec. 29 and not later than Dec. 30. Contestants are urged to plan to have their birds arrive on Dec. 29.

The birds will be housed in laying cages to be provided by several laying cage manufacturers. Each four bird entry will occupy

LAYING HEN and BABY CHICK

105

BOTH NEED "VITAMIN G"

Kraco, Milk Sugar Feed, is dried cheese whey, 50% more dependable as a source of vitamin G—the vitamin for health, hatchability and growth. Experiments at Cornell University show that Milk Sugar Feed is 1⅓ times more valuable (pound for pound) than other food concentrates fed for the same purpose. Hens *need Kraco for sustained laying of fertile* eggs—for the greater hatches it assures.

Chicks need Kraco for Growth. The better than 70% lactose content of Kraco *guards health and insures the perfect* assimilation of calcium and phosphorus for sturdy bones. 5% in the laying or chick mash does it. Leading feeds have Kraco. ***Insist*** on Kraco, Milk Sugar Feed, in the mashes you buy. **Kraft-Phenix Cheese Corporation,** *Dept. O.* **Chicago, Ill.**

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POULTOBAC is highest quality refined tobacco dust, guaranteed over 1% nicotine strength. Buy from your dealer in our sealed bags. If he is out of it, send us $1 for a 10-lb. bag postpaid or $4 for a 100-lb. bag shipped freight charges collect. Helpful leaflet free.

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38c and up; also started chicks.

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one floor or deck of a 12-unit laying cage. A large blackboard will be provided near the cages, on which the records of each egg laid and its weight will be recorded progressively as laid. Every time an egg is laid a gong will ring announcing its arrival. It is believed that such a competition will serve to stimulate renewed interest in the show. It is suggested that those who contemplate entering this competition had better make their entry early to avoid running the risk of being too late.

A cash prize of $50 is being offered as a *sweepstakes for the highest scoring pen*. A $5 cash prize is offered for a highest scoring bird of each breed. Various merchandise prizes will be offered. Poultry Tribune, Mount Morris, Ill., will give a cup for the highest scoring pen of Rhode Island Reds. *Cackle and Crow*, New Haven, Conn., has offered a cup for the highest scoring pen of New Hampshire Reds. *Everybody's Poultry Magazine*, Hanover, Pa., will give a cup for the highest scoring pen of Plymouth Rocks. Other similar prizes will be announced later as they are offered.

An entry fee of $5 is being charged for each pen. No more than thirty-six pens will be accepted which means that the contest will accommodate 144 birds. All poultry breeders, no matter where they live, are eligible. Definite reservations will be made for each four-bird pen on payment of the entry fee by October 1. Payment should be made to Hugh Thompson, 138 Watson Road, Fanwood, New Jersey.

The following breeders have already agreed to enter the contest: N. H. Reds, Hubbard Farms, Walpole, N. H.; E. N. Larrabee, Peterboro, N. H.; Andrew Christie, Kingston, N. H.; Cotton Mountain Farm, E. Wolfeboro, N. H.; R. I. Reds, Thos. Mallery, Sherborn, Mass.; J. J. Warren, No. Brookfield, Mass.; A. S. Reed, Bridgewater, Mass.; Flying Horse Farm, So. Hamilton, Mass.; George B. Treadwell, Spencer, Mass.; Harold Tompkins, Concord, Mass.; White Rocks, E. A. Hirt, So. Weymouth, Mass.; S. C. Brown Leghorns, Wm. Ellery Bright, Waltham, Mass.; S. C. White Leghorns, Dewy Meadows Poultry Farm, Vineland, N. J.; Leo A. Grouten, Farmington, Conn.; American White Leghorn Club, W. R. Kitner, Sec., Little River Road, Westfield, Mass. (2 pens).

* * *

Ruberoid Co. Moves Offices

New headquarters for The Ruberoid Co., manufacturers of Ruberoid roofing paper and other building materials, have been established at 500 Fifth Ave., New York City. Those of our readers who may have been communicating with this concern as a result of the advertising on Ruberoid which has appeared in our columns will please take note of this new address.

This company has just added another asbestos shingle factory at Bound Brook, N. J., bringing its factory total to eight.

* * *

Dr. F. B. Hutt Appointed Head Of Cornell Poultry Department

Ithaca, N. Y.—Dr. F. B. Hutt, professor of animal genetics, and poultry husbandry, University of Minnesota, St. Paul, Minnesota, has been appointed head of the poultry department at Cornell University, here.

He succeeds Prof. James E. Rice who retired on June 30, after serving for 31 years as the head of the department. The appointment of Dr. Hutt became effective July 1.

Dr. F. B. Hutt

Dr. Hutt obtained his degree of bachelor of science in agriculture from the University of Toronto in 1923; his degree of master of science from the University of Wisconsin in 1925; and his doctor of philosophy degree at the University of Edinburgh in 1929, where he specialized in animal genetics and poultry breeding.

He has taught or served as extension poultryman at the University of Manitoba and at the University of Minnesota, where he has been full professor of animal genetics and poultry husbandry, since 1931. In 1929, he

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Poultry will pay good profits this year. Stop infections accompanying **Roup—Colds—Fowl Typhoid—Canker—Diphtheria. Also Cholera.** Beebe system is simple, safe, scientific. Used by leading poultrymen. Big 1CC Dose—twice the former size—reduced price. Prepared under U.S. Veterinary License No. 17. **FREE** Dr. Beebe's new Short Course on Raising Poultry. Ask for it. **Beebe Laboratories, Inc., Dept. 33, St. Paul, Minn.**

WORMS B-B Double Shot Capsules, kill Round, Pin and Tape worms. $1.00 per 100. **Chicken Pox** Our Pigeon Pox strain Vaccine. Safest. 100 doses. 90c—500 doses. $3.7

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Chicks For Sale Every Monday and Thursday. Compliance Cert. No. 592.	100	500	1000
Large Type S. C. White Leghorns	$6.30	$31.50	$63.00
White Wyandottes and White Rocks. Excellent for Broilers	7.00	35.00	70.00
White Minorcas	8.50	42.50	85.00
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New Hampshire Reds	*7.50*	*37.50*	*75.00*

Started Chicks, 10c up. Breeders Blood Tested Stained Antigen Method B. W. D. Reactors Removed. $1 with order. Bal. C. O. D.

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Poultry Tribune Mount Morris, Ill.

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Poultry Tribune Mount Morris, Ill.

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WHAT DOES IT COST TO WORM YOUR PULLETS

Just the price of the Iodine Vermicide Merck. • There is no added expense because of loss of growth or loss of egg production. • Use Iodine Vermicide Merck this year and save money. *Write for copy of the booklet: "Facts About Iodine"*

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Manufacturing Chemists
RAHWAY, N. J.

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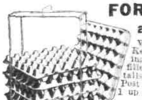

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Wire Tray Baskets with *Keyes Egg Trays for gathering eggs at nest directly into fillers.* Write for complete details on this and also on Parcel Post Egg Boxes . . . capacity 1 up to 30 dozen.

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You must have more than just Eggs. You must have Vigor, Livability, Good Development, Meat Qualities and High Normal Flock Layers.

Just such Common Sense breeding quality is back of **PARK'S Bred-to-Lay BARRED ROCKS** America's Oldest and Greatest strain that Layed and Lived their way into Popularity the World Over Since 1889.

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BUY NOW BEFORE PRICES ADVANCE

GENUINE HICKORY Red Poultry Coops for handling and shipping live poultry. 90c each; 12 for $9.00; 25 for $16.25; and 50 for $30.00. Size 1x2x3 ft., weight 15 lbs. F.O.B. Culpeper, Va. **M. F. Blankenbaker, Mfr., Dept. PT, Brightwood, Va.**

Blade cuts arterie, pierces brain, perfect bleeding, easy picking. Fully Guaranteed. Order direct. **$1.45 POSTPAID.** Write for Free Folder, latest killing methods; an extra grade means more money.

HAMBLEY SUPPLY CO., 903-T Grand Ave., Kansas City, Mo.

MAKE MONEY at HOME **Grow Mushrooms in cellar or shed.** Exclusive new process. Bigger, better, quicker crops. More money for you! **Write American Mushroom Industries, Dept. 714, Toronto, Ont.**

was awarded the research prize of the Poultry Science Association for the most significant research during the year. He is a former president of the Poultry Science Association, and a member of the American Association for the Advancement of Science, the American Genetic Association, and many other scientific societies. He has traveled widely, visiting many agricultural colleges, universities and research institutes in the United States, Canada, England, Scotland, Sweden, Denmark, and Germany. He is the author of more than thirty publications.

* * *

Weave-O-Graph Detects Distortion

Indianapolis, Ind.—Truck bodies don't get into the movies with spectacular stunts, like rolling down a mountainside, such as passenger cars sometimes figure in—but they get other tests that are even more effective and convincing. The photo shows a test of a Chevrolet truck body at the Indianapolis plant, in which the "weave-o-graph" is being used in the rear door of a newly designed panel body,

Each body design is checked.

to check the effectiveness of the bracing. With one rear wheel raised ten inches off the ground, the door opening must remain square and true. A card is attached to the bracket on the roof rail, and if the door opening weaves out of square the results are recorded on the card. This test is used with each experimental body design, to enable the engineers to make successive modifications needed to obtain the required results. Similar tests are made to check all other vital points of the body.

* * *

$100 Prize In Package Contest

New York City—Two hundred dollars in cash prizes have been offered by the Poultry and Dairy Package Improvement Bureau, here, for information on "The economic importance of the use of proper package materials for transporting and marketing eggs."

First prize is $100; second, $75; and third, $25. Each contestant must submit a typewritten thesis of not more than 3,000 words on the above subject. Duplicate prizes will be awarded in case of a tie.

Articles and accompanying photographs must be postmarked before 12 o'clock midnight, September 29, 1934, and addressed to the National Poultry and Dairy Package Improvement Bureau, 220 East 42nd Street, New York City. A card giving name, address, degree, if college graduate, or position if contestant is doing commercial work, should be included. Announcement of the judges' decision will be made October 31, 1934.

Judges for the contest are: James M. Gwin, Connecticut Department of Agriculture, Hartford, Conn.; O. A. Hanke, Editor, Poultry Tribune, Mount Morris, Ill.; and Dr. J. C. Huttar, Cooperative G. L. F. Marketing Service Corp., New York City.

Complete rules and regulations of the contest may be secured from the bureau at the above address.

* * *

Entrants in Poultry Tribune's Seventh National Chick Growing Contest should remember that the completed entry should be received by the contest editor not later than two weeks after the chicks are eight weeks old.

The Grab Bag

This month the editor has picked from among the free booklets offered by advertisers those which he feels are of most interest and help. Want any of them? They don't cost a cent . . . this is a free grab!

Just send a penny postal card to the address given here. The booklet listed will then come direct to your home. Do not send requests for any of these booklets to Poultry Tribune. You must write direct to the address listed.

● *Turkey Talks on Diseases* is an interesting leaflet which contains specific suggestions on what to do for coccidiosis, pneumonia, cholera, worms, colds, blackhead, bronchitis, sinusitis, typhoid and pox. Address: *Dr. Salsbury's Laboratories, 419 Jackson St., Charles City, Iowa.*

● *Suggested Designs for Small Fireproof Homes* is a new portfolio which contains eight complete plans. The use of cement for home construction is spreading rapidly. Homes of this type are being constructed by the Tennessee Valley Authority and in several other subsistence projects. Address: *W. G. Kaiser, Portland Cement Assn., 33 West Grand Ave., Chicago, Ill.*

● *Metal Joints for Saw Horses.* With these joints anyone can build saw horses of any length or height in a few minutes. Dozens of uses. Legs of saw horses gripped firmly by lock type grippers. Inexpensive. For catalog address, *D. V., Poultry Tribune, Mount Morris, Illinois.*

● *The New Way to Better Home Heat* is the title of a new booklet which tells about a boiler that is the latest development in automatic oil heat, performing the service of oil burner, boiler and domestic hot water heater. It is encased in a beautiful steel cabinet which conceals all controls. The boiler is widely used for commercial as well as home heating purposes. Address: *Delco Appliance Corporation, Dept. P. T., Rochester, N. Y.*

● *How to Control Round Worms Without Checking Egg Production* is a leaflet that describes a one dose nicotine flock wormer. Address: *Tobacco By-Products & Chemical Corp., Inc., Dept. P. T., Louisville, Ky.*

● *Twenty years of Progress in Scientific Feeding* is an interesting booklet which outlines the developments in poultry feeding and includes a discussion of the discovery of vitamin D about ten years ago. The influence of cod liver oil on egg production, egg size, hatchability and poultry health is related. Address: *National Oil Products Co., Inc., 2550 Essex St., Harrison, N. J.*

● *Free Roofing Repair Manual* is offered to poultry raisers who need to make their poultry house roof weather tight before winter. Tells how to patch roofs inexpensively, how to cover old roofs, what kind of roofing to put on different type roofs. Address: *The Ruberoid Company, 500 Fifth Ave., New York City.*

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* * *

Poultry Tribune Chick Growing Contest entries are due.

On the Cover!

Artist A. O. Schilling presents on the cover this month one of the most ancient of fowls—the Brown Chinese geese. Of all domestic poultry, geese probably have the longest known history and have been changed the least during the centuries. Sir Edward Brown states that geese were sacred birds in Egypt 4,000 years ago.

Goose breeding is extensively practiced in China and the Chinese goose probably is a very old breed. The Brown variety is more colorful, of course, but in other respects the Brown and White varieties differ little. They are relatively small, the Standard weight for the adult gander being 12 pounds and 10 pounds for the adult goose. They are considered good layers among geese and make a good moderate sized bird for eating, but are not as popular for meat purposes as heavier breeds. They are very graceful in appearance with long, arched necks and a large knob at the base of the beak.

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CLASSIFIED AD RATES

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To insure insertion in our Sept. issue, your copy must reach us by Aug. 10.

Send copy and remittance to Poultry Tribune, Mount Morris, Ill.

AUSTRALORPS

TO MAKE money, try Overbrook profit-making Australorps. Outlaid all other *breeds at* 1933 Illinois Contests, average 283 large eggs. Catalog free. Overbrook Farm, Box 625T, R. 15, Indianapolis, Ind.

GODDARD strain black Australorps. May pullets, cockerels—75c. Bloodtested for B. W. D. Bells Poultry Yards, Pilot Mountain, North Carolina.

BABY CHICKS

CHICKS, Pullets, Cockerels. Pedigree sired grade, sired by R. O. P. approved males, dams' egg records 200-324 eggs. Write for catalog. Blue Ribbon Farms, Sabetha, Kansas, R. 1 W.

CLOVER Valley chicks. The best you can buy. Always dependable. Clover Valley Poultry Farm, *Box 41, Ramsey, Indiana.*

C.O.D. ROCKS, Reds, Wyandottes, Brown, White Leghorns, Anconas, heavy mixed—$6.30 per 100, plus postage. Immediate shipment. Mt. Healthy Hatcheries, Mt. Healthy, Ohio.

BOOTH'S famous chicks. Fall delivery. Prompt service. White Leghorns, Reds, Barred or White Rocks, White Wyandottes, Buff Orpingtons. 100, $6.40 postpaid. Special Grade, $7.40. FREE catalog. Booth Farms, Box 922, Clinton, Missouri.

ROCKS, Reds, Orpingtons, Wyandottes, White, Brown, Buff Leghorns. Also hybrid day old pullets, cockerels. Hatching every Monday. Priced right. Wayne *Hatchery*, Wayne City, Illinois.

HATCHERY CODE, with glossary and interpretations. Get your copy. Supply limited. 5c a copy. Poultry Tribune, Mount Morris, Ill.

BANTAMS

STAMP brings fifty variety catalog. Ten eggs—$1.00. Fielder Fowl Farm, Gainesville, Texas.

COCHINS, Seabrights, Black Rose Comb, Dark Cornish, Mille Fleurs, $2.00 pair. Parakeets, $2.50 up. Galloway Bird Farm, Calfurrias, Texas.

BANTAMS—55 varieties. F. C. Wilbert, Grand Rapids, Michigan.

BRAHMAS—LIGHT

HANKINS' famous Light Brahmas, 12 week old pullets, cockerels. Catalog. W. H. Hankins, Strafford, Missouri.

CORNISH—DARK

PEDIGREED Cornish cockerels. Champion stock. W. R. Davis, Florence, Texas.

EXHIBITION Dark Cornish. Frank R. Willis, 737 E. Burnett, Louisville, Ky.

DUCKS

PUREBRED White Muscovy ducks, drakes, eggs. Brookside Poultry Farms, Richmondville, New York.

DUCKLINGS

NABOB'S Mammoth White Pekin and White Indiana Runner ducklings every week all year. Price right. Catalog free. Nabob Poultry Farms, Box D, Gambier, Ohio.

GAMES—PIT

FIGHTING COCKS. Young 1934 trios $10.00. Circular free. S. M. White, Keytesville, Mo.

EIGHT varieties (also Cornish). Fifteen eggs $1.00. Fielder Fowl Farm, Gainesville, Texas.

JERSEY WHITE GIANTS

BUY NEXT year's chicks now. Save money. Big discounts. Highest quality Illinois Department Agriculture Accredited and Pullorum tested U. S. stained Antigen method Marcy Farm Strain Jersey Giants (White and Black). Permit 197. Beautiful cockerels, pullets, trios, pens. Compliance Certificate 2097. Descriptive literature. The Maples, Box 1830, Pittsfield, Illinois.

FALL chicks, eggs, breeding or show stock cheap from White Giant headquarters. Won all 1sts at World's Fair Show and Egg Contest. Famous Salmon strain. Catalog FREE. White Giant Farms Ass'n., Bethany, Mo.

JERSEY White Giants from World's Fair Winners. Highest grade Giants that money can buy. 3½ months old breeding cockerels—$2.00 each. Also pullets and mated pens. Lawrence Beckmann, Grand Rapids, *Mich.*

1,000 WHITE Giants. J. R. Moon, Knoxville, Iowa.

WHITE Jersey Giants, Marcy Permit 257 breeding stock. Order early and get the best. Vernondale Poultry Place, Woodbine, Iowa.

COCKERELS. White Giants, Black Giants, Buff Minorcas, Lakenvelders. Thomas Farms, Pleasanton, Kansas.

LEGHORNS—S. C. WHITE

PULLETS. Biggest bargain ever offered. Big type Tom Barron White Leghorns. Flock averages up to 222 eggs. Shipped on approval, satisfaction guaranteed. Central Farm Hatchery, Zeeland, Mich.

TANCRED 300 eggers. Hens, cockerels, pullets—50c. Rosevale Ranchlet, New Liberty, Illinois.

BARRON White Leghorn pullets, 3 and 4 months old. Bishops Poultry Farm, New Washington, Ohio.

WHITE Leghorn pullets and yearling hens. Van Raalte Poultry Farm, Holland, Mich.

LARGE Tancred trapnested pedigreed foundation stock. Cockerels, hens, pullets. Leghorn Land, Hopkinton, Iowa.

THOUSANDS choicest yearling White Leghorn hens and males, pullets and cockerels at remarkable reductions, allowing room for young stock. Extra discount for *baby chicks ordered now for Spring delivery.* Trapnested, pedigreed foundation stock. Egg-bred for 33 years. Winners at 20 egg contests. Records to 336 eggs. Special price bulletin free. George B. Ferris, Inc., 904 Union, Grand Rapids, Michigan.

CHICKS until September from our 2,000 large type Tancred hens bred on our own farm—$5.75 per 100. Postpaid. Hamilton Leghorn Farm, Bancroft, Iowa.

3 MONTHS old ROP, bred large, lop-combed English type White Leghorn pullets—65c each. Lawrence Beckmann, Grand Rapids, Michigan.

HIGH production Single Comb White Leghorns, pure Tom Cochran 30 ounce egg strain. 11 and 14 week old cockerels for sale. Pebbly Brook Farm, Box 391, Libertyville, Illinois.

STATE accredited English White Leghorn pullets. Roselawn AA foundation 250 to 300 egg blood-lines. Twelve weeks old pullets. Special price—65c each. Ready-to-lay pullets—$1.00 each. Terhune Leghorn Farm, McAfee, Ky.

PULLETS! Hollywood, large type White Leghorns. 6 to 18 weeks—40c and up. Parent stock, large bodied birds, TB and Pullorum (B.W.D.) tested under Federal and State supervision. All free range pullets and guaranteed to be of uniform growth and in A-1 health. Really the cream of Michigan's White Leghorns. The Rural Poultry Farm, Route 1, Box TJ834, Zeeland, Michigan.

MINORCAS—BLACK

PAPE Mammoth Single Comb Black *Minorcas; America's* greatest producers premium white eggs delicious meat. Stock, eggs, chicks. Charles Pape, Fort Wayne, Indiana.

MINORCAS—BUFF

SCHMIDT'S Buff Minorcas. Bargains in yearling hens. 10 weeks old cockerels and *pullets. Edw. Schmidt, Thorntown,* Indiana.

ORPINGTONS—BUFF

COCKS. Buff Orpington purebred large type year old—$2.00; hens—75c each. Dora Welsch, Correctionville, Iowa.

PHEASANTS

SEVEN varieties, young and old Hungarian Partridge, quail. Geo. Konrad, Richfield, Wis.

PHEASANTS. Matured and young. Many varieties. Northern stock. Mallards, Hungarian Partridges. Springborne's Game *Farm, 2881 North 27 St., Milwaukee, Wis.*

PLYMOUTH ROCKS—BARRED

EARLY hatched Barred Rock pullets. Ralph B. Vestal, Richwood, Ohio.

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SHOW and utility, eggs and stock. John W. VanLiere, Salem, Wisconsin.

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MARTIN strain cockerels $3.00 each. Ethel C. Teeter, Geneva, Ind.

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R.O.P. BARRED and White Rock cockerels. 12 to 16 weeks old. Pinecroft Poultry Farm, Owosso, Michigan.

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HYBRID pullets are healthier, better layers and live longer. Make heavy hens. Better than *Leghorns for eggs.* Send us your name. We want to tell you about these wonderful birds. Parkin Hatchery, Box 65, Shawnee, Okla.

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PULLETS and hens. English White Leghorns. *Various ages. Bargain prices.* Free booklet. Lemmen's Leghorn Farm, Holland, Michigan.

EGGS FOR SALE

PRODUCERS and gatherers of fresh white and brown eggs receive excellent prices from us. Ship or write. Bank reference, Public National Bank. Betman Egg Co., 1278 Gerard Ave., New York City.

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RAT TERRIER puppies. Bred for ratters. Satisfaction guaranteed. Crusaders Kennels, Stafford, Kans.

BEAUTIFUL registrable collies. Pups—$11.00. Rosevale Ranchlet, New Liberty, Illinois.

ST. BERNARD puppies, registered beauties. Paramount Kennels, 5345T McKenna, Montreal, Canada.

KITTENS

BEAUTIFUL Persian kittens, $5.00. Edna Mills, Plainville, Kansas.

RABBITS

RAISE rabbits for us. We supply stock and buy what you raise paying you highest prices. Established 20 years. Rabbit book, catalog and monthly market bulletin show*ing prices we pay our breeders, 10c.* Address Outdoor Enterprise Co. Inc., Box 53, Holmes Park, Missouri.

FLEMISH Giants, New Zealand Whites. Close's Rabbit Farm, Tiffin, Ohio.

RABBIT SKINS

WE buy rabbit skins and angora rabbit wool. Long Island Farm Prod., Rosedale, N. Y.

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WHITE king breeding stock—$2.00 per pair. White King Poultry Farms, Bettendorf, Iowa.

HOMERS—75c pair; Kings—$1.50. Irving M. Bailey, Route 2, Farmington, Mich.

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BIG PROFITS raising Jumbo Bullfrogs. New industry. Easy, interesting. Send 10c for literature. American Frog Industries, Box 330, Rayne, Louisiana.

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OUR home made battery, 25c hovers require 70° room, no supplementary heat. Raise 100 broilers weekly. Circular free. Albert Hardy, Route 4, Dixon, Illinois.

HOT water battery brooder. L. P. Kaercher, 2014 3rd St., St. Paul, Minn.

FOUR 12-hen Brower laying batteries, slightly used, $60.00. One 200 broiler finisher, $50.00. Wm. Wegener, Route 1, Knox, Ind.

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CAPONIZING instruments, illustrated directions, world's highest endorsements, satisfaction guaranteed, five dollars. Or sent *collect. Bulletin B* for stamp. S. K. Burdin, Hamburg, N. Y.

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LOTS OF eggs by feeding fresh-cut market bones, cut in a Mann Bone Cutter. Sent on trial. Catalog free. F. W. Mann Company, Box 14, Milford, Mass.

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INCREASE your poultry returns. 5 to 20 acre improved Washington farms, $1,200 to $5,000; unimproved lower. Terms. Year round mild climate; eggs bring premium. Literature, impartial advice. J. W. Haw, 124 Northern Pacific Railway, St. Paul, *Minn.*

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COLORED enlargement with each film finished. LaCrosse Film Company, La-Crosse, Wisconsin.

ROLL developed, 8 prints, oil painted enlargement, 25c. Prompt service. Work guaranteed. Individual attention to each *picture. Janesville Film Service,* C55, Janesville, Wis.

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SAVE ON your tobacco. Enjoy Kentucky's pride. Home manufactured chewing, 30 big twists, sweet or natural—$1.00. 30 full size sacks smoking, extra mild or *natural*, $1.00. 24 full size Sweet Plugs—$1.00. Satisfaction guaranteed. Murray Tobacco Co., Murray, Ky.

GOLDEN Heart, Tennessee's finest mellow natural leaf. 10 pounds smoking or chewing—$1.00, box of twists free. Farmer Sales Co., Paris, Tenn.

KENTUCKY'S guaranteed Red Leaf *Chewing* or Mild Mellow Smoking, 10 pounds $1.00—double-bladed pocket knife, recipe free. Kentucky Farms, Murray, Ky.

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$15 A WEEK and your own dresses free for demonstrating latest lovely Fashion Frocks. No canvassing. Write fully. Give your size and color preference. Fashion Frocks, Dept. JJ-1076, Cincinnati, Ohio.

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MAN wanted with car—manufacturer established 45 years will finance responsible man with complete stock of guaranteed food, farm and household necessities—you pay when sold. Good living right from start with steady increase for industrious man. Big value combination deals and fast-selling specials now in effect. O. W. Jack of Wisconsin just sold over $308 in one week. Pleasant outdoor work. Experience unnecessary. No slack seasons or layoffs. Write today for "No-Investment" Offer. McConnon and Company, Room 56HS, Winona, Minn.

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WANTED. Married man. Farm and poultry work. Also man for incubation and pedigreeing. Box LD, Poultry Tribune.

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$2.00 IN AN HOUR with amazing invention. Mends cloth quickly without needle and thread. Mends don't show. Washes, boils, irons. Free sample. Sew-No-More, *Dept. Z-950, Cincinnati, Ohio.*

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PATENTS. Reasonable terms. Book and advice free. L. F. Randolph, Dept. 539, Washington, D. C.

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BURPEE'S Crocus. 12 guaranteed bulbs *(value 25c) sent postpaid for only 10c;* 125 bulbs postpaid for only $1.00. All best colors, in mixture. Burpee's Bulb Book, free. Best guide to Fall planting. W. Atlee Burpee Co., 655 Burpee Bldg., Philadelphia.

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EDISON storage batteries for power and light. Odorless. Replaces all type lead batteries. Non-acid. Long life. Liberal unconditional guarantees. Free literature. See Jay Battery Company, 82A Sterling Avenue, Yonkers, New York.

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PRODUCTS bearing this stamp have been Approved After Test at Poultry Tribune Experimental Farm. A list of approved products may be secured from Poultry Tribune for a three-cent stamp.

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DEPENDABLE USED INCUBATORS

All standard makes. 2500 egg capacity and upwards. Prices the very lowest. Terms most liberal, two and three years to pay. You can depend on used incubators bought from us. All machines are complete, thoroughly cleaned and revarnished. Broken or damaged parts are replaced. Send for prices on machine near you.

THE SMITH INCUBATOR Co
3305-P W. 121st St., Cleveland, O

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Save with a VALVE-IN-HEAD SIX-CYLINDER CHEVROLET TRUCK

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CHEVROLET MOTOR COMPANY, DETROIT, MICHIGAN

Compare Chevrolet's low delivered prices and easy G.M.A.C. terms. A General Motors Value